#7 8/9/02

PCT10

RAW SEQUENCE LISTING DATE: 06/05/2002
PATENT APPLICATION: US/10/019,341 TIME: 17:12:08

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  3 <110> APPLICANT: Hayden, Michael R.
  4       Kastelein, John J.P.
  6 <120> TITLE OF INVENTION: LPL Variant Therapeutics
  8 <130> FILE REFERENCE: SMAR-0013
 10 <140> CURRENT APPLICATION NUMBER: 10/019,341
C--> 11 <141> CURRENT FILING DATE: 2002-05-07
 13 <150> PRIOR APPLICATION NUMBER: EP992020487
 14 <151> PRIOR FILING DATE: 1999-06-24
 16 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00762
 17 <151> PRIOR FILING DATE: 2000-06-23
 19 <160> NUMBER OF SEQ ID NOS: 4
 21 <170> SOFTWARE: PatentIn version 3.1
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 24 <211> LENGTH: 446
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 35             20                  25                  30
 38 Val Ala Glu Ser Val Ala Thr Cys His Phe Asn His Ser Ser Lys Thr
 39         35                  40                  45
 42 Phe Met Val Ile His Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp
 43     50                  55                  60
 46 Val Pro Lys Leu Val Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn
 47 65                  70                  75                  80
 50 Val Ile Val Val Asp Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val
 51                 85                  90                  95
 54 Ser Ala Gly Tyr Thr Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile
 55             100                 105                 110
 58 Asn Trp Met Glu Glu Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu
 59         115                 120                 125
 62 Leu Gly Tyr Ser Leu Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu
 63     130                 135                 140
 66 Thr Asn Lys Lys Val Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro
 67 145                 150                 155                 160
 70 Asn Phe Glu Tyr Ala Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala
 71                 165                 170                 175
 74 Asp Phe Val Asp Val Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg
 75             180                 185                 190
 78 Ser Ile Gly Ile Gln Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn
 79         195                 200                 205
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87 225                 230                 235                 240
90 His Glu Arg Ser Ile His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu
91                 245                 250                 255
94 Asn Pro Ser Lys Ala Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys
95             260                 265                 270
98 Gly Leu Cys Leu Ser Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr
99         275                 280                 285
102 Glu Ile Asn Lys Val Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys
103     290                 295                 300
106 Thr Arg Ser Gln Met Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile
107 305                 310                 315                 320
110 His Phe Ser Gly Thr Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu
111                 325                 330                 335
114 Ile Ser Leu Tyr Gly Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr
115             340                 345                 350
118 Leu Pro Glu Val Ser Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr
119         355                 360                 365
122 Glu Val Asp Ile Gly Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser
123     370                 375                 380
126 Asp Ser Tyr Phe Ser Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala
127 385                 390                 395                 400
130 Ile Gln Lys Ile Arg Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile
131                 405                 410                 415
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154             20                  25                  30
157 Asp Phe Ile Asp Ile Glu Ser Lys Phe Ala Leu Arg Thr Pro Glu Asp
158         35                  40                  45
161 Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly Val Ala Glu Ser Val
162     50                  55                  60
165 Ala Thr Cys His Phe Asn His Ser Ser Lys Thr Phe Met Val Ile His
166 65                  70                  75                  80
169 Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp Val Pro Lys Leu Val
170                 85                  90                  95
173 Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn Val Ile Val Val Asp
174             100                 105                 110
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Input Set : A:\SMAR0013.ST25.txt
Output Set: N:\CRF3\06052002\J019341.raw

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182     130                 135                 140
185 Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu Leu Gly Tyr Ser Leu
186 145                 150                 155                 160
189 Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu Thr Asn Lys Lys Val
190                 165                 170                 175
193 Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro Asn Phe Glu Tyr Ala
194             180                 185                 190
197 Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala Asp Phe Val Asp Val
198         195                 200                 205
201 Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg Ser Ile Gly Ile Gln
202     210                 215                 220
205 Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn Gly Gly Thr Phe Gln
206 225                 230                 235                 240
209 Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val Ile Ala Glu Arg Gly
210                 245                 250                 255
213 Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser His Glu Arg Ser Ile
214             260                 265                 270
217 His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu Asn Pro Ser Lys Ala
218         275                 280                 285
221 Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys Gly Leu Cys Leu Ser
222     290                 295                 300
225 Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr Glu Ile Asn Lys Val
226 305                 310                 315                 320
229 Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys Thr Arg Ser Gln Met
230                 325                 330                 335
233 Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile His Phe Ser Gly Thr
234             340                 345                 350
237 Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu Ile Ser Leu Tyr Gly
238         355                 360                 365
241 Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr Leu Pro Glu Val Ser
242     370                 375                 380
245 Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr Glu Val Asp Ile Gly
246 385                 390                 395                 400
249 Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser Asp Ser Tyr Phe Ser
250                 405                 410                 415
253 Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala Ile Gln Lys Ile Arg
254             420                 425                 430
257 Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile Phe Cys Ser Arg Glu
258         435                 440                 445
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269 <210> SEQ ID NO: 3
270 <211> LENGTH: 448
271 <212> TYPE: PRT
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RAW SEQUENCE LISTING DATE: 06/05/2002
PATENT APPLICATION: **US/10/019,341** TIME: 17:12:08

Input Set : **A:\SMAR0013.ST25.txt**
Output Set: **N:\CRF3\06052002\J019341.raw**

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274 <400> SEQUENCE: 3
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280 Arg Thr Pro Glu Asp Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly
281             20                  25                  30
284 Val Ala Glu Ser Val Ala Thr Cys His Phe Asn His Ser Ser Lys Thr
285         35                  40                  45
288 Phe Met Val Ile His Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp
289     50                  55                  60
292 Val Pro Lys Leu Val Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn
293 65                  70                  75                  80
296 Val Ile Val Val Asp Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val
297                 85                  90                  95
300 Ser Ala Gly Tyr Thr Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile
301             100                 105                 110
304 Asn Trp Met Glu Glu Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu
305         115                 120                 125
308 Leu Gly Tyr Ser Leu Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu
309     130                 135                 140
312 Thr Asn Lys Lys Val Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro
313 145                 150                 155                 160
316 Asn Phe Glu Tyr Ala Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala
317                 165                 170                 175
320 Asp Phe Val Asp Val Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg
321             180                 185                 190
324 Ser Ile Gly Ile Gln Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn
325         195                 200                 205
328 Gly Gly Thr Phe Gln Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val
329     210                 215                 220
332 Ile Ala Glu Arg Gly Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser
333 225                 230                 235                 240
336 His Glu Arg Ser Ile His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu
337                 245                 250                 255
340 Asn Pro Ser Lys Ala Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys
341             260                 265                 270
344 Gly Leu Cys Leu Ser Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr
345         275                 280                 285
348 Glu Ile Asn Lys Val Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys
349     290                 295                 300
352 Thr Arg Ser Gln Met Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile
353 305                 310                 315                 320
356 His Phe Ser Gly Thr Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu
357                 325                 330                 335
360 Ile Ser Leu Tyr Gly Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr
361             340                 345                 350
364 Leu Pro Glu Val Ser Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr
365         355                 360                 365
368 Glu Val Asp Ile Gly Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser
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PATENT APPLICATION: US/10/019,341 TIME: 17:12:08

Input Set : A:\SMAR0013.ST25.txt
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372 Asp Ser Tyr Phe Ser Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala
373 385                 390                 395                 400
376 Ile Gln Lys Ile Arg Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile
377                 405                 410                 415
380 Phe Cys Ser Arg Glu Lys Val Ser His Leu Gln Lys Gly Lys Ala Pro
381             420                 425                 430
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385         435                 440                 445
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390 <212> TYPE: RNA
391 <213> ORGANISM: Homo sapiens
393 <400> SEQUENCE: 4
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398 ccccagaggg acgcgccccg agaggagagc aaagcccgcc ggcgaccggc cggggcccag    180
400 agcgaccgcc cccgcggagg ggggccgccg ccgaccaaag aagagaacga cacgaaagaa    240
402 agcccaagga ccccgaagac acagcgagga cacgccaccc acccggagag cagagccggg    300
404 caccgcacaa cacagcagca aaacccaggg accaggcgga cggaacagga agagagaggg    360
406 ggccaaaacg ggccgcccga caagagagaa ccagacccaa gcaggggggac ggcgcacggg    420
408 ccaggagcaa cccaggccgc gggcacacca aacgggggac aggagggccc ggacaacgga    480
410 ggaggaggag aacaccccgg acaagccacc gggaacagcc ggagcccagc gcggcagcag    540
412 gaagcgacca aaagaaagca acagaaacgg cccgaccagc ggaccaacga gagcagaagc    600
414 cccgagcgcc ccgagagcag agagacgcac acacacacca gagggccccg gcgaagcagg    660
416 aaccagaaac caggggcagg acaacccgaa ggaggaccag ccaggagaac aggagaagca    720
418 ccgcggagca gagagaggac ggagagggac cagcaggaag gccccacgag cgcccacacc    780
420 cacgacccgg aagaagaaaa ccaagaaggc cacagggcag ccaaggaagc cgagaaaggg    840
422 ccgcgaggag aaagaaccgc gcaacaacgg gcagagacaa aaagcagagc caaaagaagc    900
424 agcaaaagac cgaagaccgc cagagcccac aaagcccaac caagaaagac acgggacgag    960
426 aggaaaccca accaacaggc cgagaccgag gcaccgggcc gagaggagaa cacccacacc   1020
428 gccgaagcca caaaaagacc acccccaaac acagaggaga aggagaacac caggaagcca   1080
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442 aaaaaggagc gcagagaaaa aaggccccag ggcgagggcc aagccaaagg agaaccccaa   1500
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446 gaacagacca cacacagcag agaagagaga agaccccgca ggaagggcca gacgcaacca   1620
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VERIFICATION SUMMARY DATE: 06/05/2002
PATENT APPLICATION: **US/10/019,341** TIME: 17:12:09

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